TELESTE

Teleste MPH products

**H.264
HD-SDI
ONVIF
NEMA TS 2
EN50121 RAIL**

Digital H.264 video, audio and serial data encoder for IP/ Ethernet networking systems

Teleste MPH encoder range is the latest offering on the well-known MPX product family catering various video streaming solutions. The product is based on multi-purpose hardware and application specific software. It allows the use of hardware resources in a flexible manner, to enable a variety of profiles, resolutions, frame rates and add-ons for multiple applications.

The MPH range encoders offer an unbeatable video quality in a form factors that are flexible, scalable and easily upgradeable. The key video operation is standards based H.264 encoding providing streaming for Main Profile and Baseline Profile applications. Other supported video encoding formats are MJPEG, MPEG-4 and MPEG-2. Thanks to ingenious licensing scheme the Standard Definition video input in specific MPH encoders can be re-configured to support digital HD-SDI High Definition operation.

The power of MPH encoders is extended also to audio and serial data channeling as well. ITU and AAC standard coding schemes are available for high-quality two-way communication or PA distribution. The serial data capable of handling various data standards is a must when dealing with camera PTZ protocols or other data bus controlled devices. For fluent network operation the MPH range features either an electrical 10/100/100Base-T interface or an optical port for 100/1000M SFP transceivers. The most feature-packed MPH encoder has an built-in Ethernet Edge Switch.

Depending on a required installation scheme the available mechanics portfolio is supporting well both standalone installations and locally grouped constellations in a rack. For most extreme operation environments specific models are not only temperature hardened but also meeting specifications coming from road side and rail installation requirements.

The MPH encoders are conforming to on industry standards; hence they can be deployed in any standards based system. This is of the essence in todays multi-vendor environment.

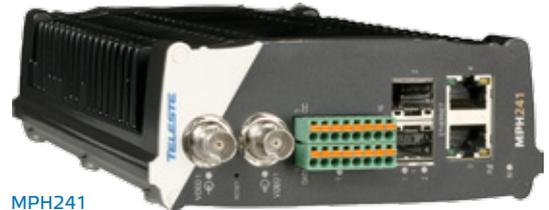# MPH Encoding & switching for PTZ and fixed cameras

MPH Benefits

> H.264, MJPEG, MPEG-2 and MPEG-4 encoding
> Excellent video quality: standard operation up 4CIF/D1 25/30 fps
> HD ready; optional HD-SDI input for 1080i and 720p resolutions
> Single channel units with video loop-through at input
> Low system video latency, less than 150 ms
> Profile, bandwidth, output resolution and frame rate are adjustable for each channel separately
> Multi stream support: Separated streams for live-viewing and recording
> Stream rate control CBR, CVBR or VBR
> Unicast and/or multicast support
> Built-in video content analytics
> Video authentication, privacy masking and text overlays
> PTZ supported via ONVIF and/or dedicated data bus
> Industrial temperature-hardened; long life-time via passive cooling
> DIN-rail mounting support, specific models rack mounted
> Built-in Gigabit Ethernet Edge Switch
> Support for ONVIF and SNMP management
> Local or remote SW update via CLI, SNMP or WebUI
> Support for SFP optics: No need for media converters
> Supported by VMX video management system
> Future options to cover local storage and video encryption

MPH101 MPH402

MPH241

Video	MPH101/111	MPH102/112	MPH401/411	MPH402/412	MPH241	MPH242
CVBS video input	1	2	1	2	1	2
HD-SDI video input	-				1*	-
Encoding channels	up to 4	up to 4	up to 4	up to 4	up to 4 or 1 HD*	up to 4
Total streams	up to 8	up to 6	up to 8	up to 6	up to 8 or 1 HD*	up to 6
Coding	H.264/MJPEG/MPEG-4*/MPEG-2*					
Resolution	QCIF/CIF/2CIF/4CIF, ½D1/D1				QCIF/CIF/2CIF/4CIF, ½D1/D1/720p*/1080i*	QCIF/CIF/2CIF/4CIF, ½D1/D1
Frame rate (fps)	1…25 PAL, 1…30 NTSC					
Max. Performance (25/30 fps)						
H.264, MJPEG, MPEG-4*, MPEG-2*	4 x 4CIF/D1	2 x 4CIF/D1 (per video input)	4 x 4CIF/D1	2 x 4CIF/D1 (per video input)	4 x 4CIF/D1 or 1 x 720p/1080i* or 1 x 720p + 1 x 4CIF/D1*	2 x 4CIF/D1 (per video input)
ONVIF	Yes					
SNMP*	Yes					
Motion detection	Yes					
Camera tampering	Yes					
Text overlay	Yes					
SAP	Yes (Session Announcement Protocol)					
NTP	Yes (Network Time Protocol)					
RTSP	Yes (Real Time Streaming Protocol)					
Data channels	2					
Standard	Data 1: RS422/485, Data 2: RS232					
Audio channels	-				2	
Coding	-				G.711. G.726, AAC-LC, AAC-HE*	
Contact closures	2 in, 1 out					
Ethernet ports	1				4	
	Fast Ethernet / Gigabit Ethernet* (electrical or optical)				Fast Ethernet / Gigabit Ethernet (electrical or optical)	
VLAN					16 ids	
Multicast					IGMP v1, v2	
Link redundancy					STP/RSTP	
Protocols	RTP, UDP, TCP, IP, HTTP, DHCP, SSH, Telnet, DHCP, DNS, ZeroConf, ICMP, ARP, QoS					
SFP support*	Yes					
Management	WebUI / SNMP / CLI (password protected user groups with different user levels, CLI via serial or SSH connection)					
Size (H x W x D)	41 x 129 x 166.5 mm (1.6 x 5.1 x 6.6 in)		130 x 26 x 170 mm (5.12 x 1.02 x 6.69 in)		52.5 x 130 x 254	
Operating temperature	-34…+74 ºC (-29…+165 ºF)		-10…+60 ºC (-14…+140 ºF)		-34…+74 ºC (-29…+165 ºF)	
Power consumption	5.5 W				13 W	
Power Over Ethernet	PoE, 802.11af, 7.5W (class 3)		-		PoE+, 802.11at, 15W (class 4)	

* = option

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